Amendment to Serial No. 10/534,226 Confirmation Number 3361

Filed May 6, 2005 Page 10 of 12 pages

REMARKS

Pending claims 11-22, 24, 35-46 and 48 have been cancelled without prejudice or

disclaimer. Applicants reserve the right to file one or more continuation or divisional

applications directed to the cancelled subject matter. New claims 49-60 have been added. No

new matter has been added by this amendment. The following addresses the rejections set forth

in the June 18, 2009 Office Action. Entry and consideration is respectfully requested.

Claims 35-46 and 48 of a targeting an inheritable integration of a transgene into the

genome of a vertebrate organism has been cancelled. Applicants reserve the right to file one or

more continuation or divisional applications directed to the cancelled subject matter pertaining to

those claims.

The rejection of claims 11-22, 24, 35-46, as it now pertains to the new claims 49-60 is

respectfully traversed.

Rejection of Claims 21 and 45 Under 35 U.S.C. §112, 1st and 2nd paragraph

The Examiner rejected claims 21 and 45 under 35 U.S.C. §112, first paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention. Additionally the Examiner rejected claims 21 and 45 for

being unclear under 35 U.S.C. $\S112$, second paragraph. Inasmuch as those claims have been

cancelled, the rejection is moot.

Rejection of Claims 11-22, 24, 35-46 and 48 Under 35 U.S.C. §112 2nd paragraph

The Examiner rejected claims 11-22, 24, 35-46 and 48 under 35 U.S.C. §112, second

paragraph, stating that the language is unclear. Applicants have amended those claims to be

reflected in new claims 49-60. This contention is respectfully traversed.

As the amended, new independent claim 49, the claim now recites the following:

Amendment to Serial No. 10/534,226 Confirmation Number 3361

Filed May 6, 2005

Page 11 of 12 pages

"a first DNA cassette a first DNA cassette carrying a first transposon half side at one end.

a second transposon half side in opposite orientation at the other end, a first wild-type/non-

mutated recombinase target site, and a mutated second heterospecific recombinase target site,

wherein the recombinase target sites are flanked between said transposon half-sides..."

"a second DNA cassette carrying the same target recombinase sites in the same

orientation of said first DNA cassette, an internal transposon half side flanked by said target

recombinase sites in the same orientation as said second transposon half side, and a transgene

positioned between said internal half side and second recombinase site with the exchange

mediated by a site-specific recombinase that catalyzes a DNA recombination reaction via

homospecific recombinase target sites..."

Additionally, the step of "identifying that said transgene has been integrated into said

genome" has been included in claim 49.

Applicants submit that the steps of identifying that the transgene has been integrated into

the genome relates the process the heritable integration of the transgene is achieved.

Specifically, Page 25 and 26 of the Specification under the heading of: "Step 1: Targeted DNA

cassette exchange (RMCE, Step 1 in Fig. 5 and Fig. 7)" describes steps of identifying that the

transgene has been integrated.

Thus, present claims 49-60 application adequately describes the claimed invention.

Applicants thus respectfully request favorable reconsideration and withdrawal of the rejection

under 35 U.S.C. § 112.

In the event that the Office maintains this rejection, Applicants respectfully request, in

the interest of its policy of compact prosecution, that the Office explain how the aforementioned

Amendment to Serial No. 10/534,226 Confirmation Number 3361

Filed May 6, 2005 Page 12 of 12 pages

portions of the present application fail to communicate to a skilled artisan that Applicants

possessed the claimed invention.

In view of the foregoing, it is respectfully submitted that claims 49-60 define allowable

subject matter. Should anything remain in order to place the present application in condition for

allowance, the Examiner is kindly invited to contact the undersigned at the telephone number

listed below.

Dated: October 19, 2009

Respectfully submitted,

/Albert Y. Tsui/

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